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<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	09/076,404
				Filing Date	05/12/1998
				First Named Inventor	David J. Ecker
				Art Unit	1631
				Examiner Name	John S. Brusca
Sheet	1	of	4	Attorney Docket Number	IBIS-0007US

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	GY	US-6,221,587	04-24-2001	Ecker et al.	
	GZ	US-6,253,168	06-26-2001	Griffey et al.	
	HA	US-6,280,932	08-28-2001	Parma et al.	
	HB	US-6,428,956	08-06-2002	Crooke et al.	
	HC	US-6,446,032	09-03-2002	Schimmel	
	HD	US-09/076,214	05-12-1998	Griffey et al.	
	HE	US-09-076,447	05-12-1998	Griffey et al.	
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

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NON PATENT LITERATURE DOCUMENTS			
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	HF	ABOUL-ELA, F. et al., "The Structure of the Human Immunodeficiency Virus Type-1 TAR RNA Reveals Principles of RNA Recognition by Tat Protein," <i>J. Mol. Biol.</i> (1995) 253:313-332.	
	HG	AN, H. et al., "New Piperaziny Polyazacyclophane Scaffolds, Libraries and Biological Activities," <i>Bioorg. Med. Chem. Lett.</i> (1998) 8:2345-2350.	
	HH	BIEMANN, K., "Mass Spectrometry of Peptides and Proteins," <i>Annu. Rev. Biochem.</i> (1992) 61:977-1010.	
	HI	BOWERS, M. T. et al., "Mass Spectrometry: Recent Advances and Future Directions," <i>J. Phys. Chem.</i> (1996) 100:12897-12910.	
	HJ	BRYAN, L. E., "Mechanisms of Action of Aminoglycoside Antibiotics," <i>New Dimension in Antimicrobial Therapy</i> (1984) Root, R. K. and Sande, M. A. (eds.), Churchill Livingstone, New York, pp. 17-36.	
	HK	BURLINGAME, A. L., "Mass Spectrometry," <i>Anal. Chem.</i> (1998) 70:647R-716R.	
	HL	CASEY, J. L. et al., "Iron-Responsive Elements: Regulatory RNA Sequences that Control mRNA Levels and Translation," <i>Science</i> (1988) 240:924-928.	
	HM	CHENG, X. et al., "Direct measurement of oligonucleotide binding stoichiometry of gene V protein by mass spectrometry," <i>Proc. Natl. Acad. Sci. USA</i> (1996) 93:7022-7027.	
	HN	CRAIN, P. F. et al., "Applications of mass spectrometry to the characterization of oligonucleotides and nucleic acids," <i>Curr. Opin. Biotech.</i> (1998) 9:25-34.	
	HO	DE STASIO, E. A. et al., "Mutations in 16S ribosomal RNA disrupt antibiotic-RNA interactions," <i>EMBO J.</i> (1989) 8(4):1213-1216.	
	HP	DURET, L. et al., "HOVERGEN: a database of homologous vertebrate genes," <i>Nucleic Acids Res.</i> (1994) 22(12):2360-2365.	
	HQ	FITZGERALD, M. C. et al., "Probing the oligomeric structure of an enzyme by electrospray ionization time-of-flight mass spectrometry," <i>Proc. Natl. Acad. Sci. USA</i> (1996) 93:6851-6856.	
	HR	FOURMY, D. et al., "Structure of the A Site of <i>Escherichia coli</i> 16S Ribosomal RNA Complexed with an Aminoglycoside Antibiotic," <i>Science</i> (1996) 274:1367-1371.	

\* A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is too voluminous and easily obtainable by the Examiner.

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		<i>Examiner Name</i>	John S. Brusca
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	HS	FOURMY, D. et al., "Paromomycin Binding Induces a Local Conformational Change in the A-site of 16 S rRNA," <i>J. Mol. Biol.</i> (1998) 277:333-345.	
	HT	GALE, D. C. et al., "Characterization of Noncovalent Complexes Formed between Minor Groove Binding Molecules and Duplex DNA by Electrospray Ionization-Mass Spectrometry," <i>J. Am. Soc. Mass Spectrom.</i> (1995) 6:1154-1164.	
	HU	GANGULY, A. K. et al., "Studies of the Ras-GDP and Ras-GTP Noncovalent Complexes by Electrospray Mass Spectrometry," <i>Tetrahedron</i> (1993) 49(36):7985-7996.	
	HV	GRIFFEY, R. H. et al., "Detection of base pair mismatches in duplex DNA and RNA oligonucleotides using electrospray mass spectrometry," <i>SPIE</i> (1997) 2985:82-86.	
	HW	HALL, K. B., "Interaction of RNA Hairpins with the Human U1A N-Terminal RNA Binding Domain," <i>Biochemistry</i> (1994) 33(33):10076-10088.	
	HX	JORGENSEN, T. J. D. et al., "Direct Determination of Solution Binding Constants for Noncovalent Complexes between Bacterial Cell Wall Peptide Analogues and Vancomycin Group Antibiotics by Electrospray Ionization Mass Spectrometry," <i>Anal. Chem.</i> (1998) 70:4427-4432.	
	HY	KUNTZ, I. D., "Structure-Based Strategies for Drug Design and Discovery," <i>Science</i> (1992) 257:1078-1082.	
	HZ	LOO, J. A., "Studying Noncovalent Protein Complexes by Electrospray Ionization Mass Spectrometry," <i>Mass Spectrom. Rev.</i> (1997) 16:1-23.	
	IA	MARSHALL, A. G. et al., "Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: A Primer," <i>Mass Spectrom. Rev.</i> (1998) 17:1-35.	
	IB	MARTIN, F. et al., "The gene for histone RNA hairpin binding protein is located on human chromosome 4 and encodes a novel type of RNA binding protein," <i>EMBO J.</i> (1997) 16(4):769-778.	
	IC	MCMARTIN, C. et al., "QXP: Powerful, rapid computer algorithms for structure-based drug design," <i>J. Comput.-Aided Mol. Design</i> (1997) 11:333-344.	
	ID	MIYAGUCHI, H. et al., "An antibiotic-binding motif of an RNA fragment derived from the A-site-related region of <i>Escherichia coli</i> 16S rRNA," <i>Nucleic Acids Res.</i> (1996) 24(19):3700-3706.	

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First Named Inventor

David J. Ecker

Art Unit

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Examiner Name

John S. Brusca

Attorney Docket Number

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	IE	OWEN, D. et al., "Noncoding 3' sequences of the transferrin receptor gene are required for mRNA regulation by iron," <i>EMBO J.</i> (1987) 6(5):1287-1293.	
	IF	RECHT, M. I. et al., "RNA Sequence Determinants for Aminoglycoside Binding to an A-site rRNA Model Oligonucleotide," <i>J. Mol. Biol.</i> (1996) 262:421-436.	
	IG	SMITH, R. D. et al., "New mass spectrometric methods for the study of noncovalent associations of biopolymers," <i>Chem. Soc. Rev.</i> (1997) 26:191-202.	
	IH	SON, S.-Y., "The Structure and Regulation of Histone Genes," <i>Saengwhahak nyusu</i> (1993) 13(2):64-70.	
	II	WANG, Y. et al., "Specificity of Aminoglycoside Binding to RNA Constructs Derived from the 16S rRNA Decoding Region and the HIV-RRE Activator Region," <i>Biochemistry</i> (1997) 36(4):768-779.	
	IJ	WINCOTT, F. et al., "Synthesis, deprotection, analysis and purification of RNA and ribozymes," <i>Nucleic Acids Res.</i> (1995) 23(14):2677-2684.	
	IK	WONG, C.-H. et al., "Specificity of aminoglycoside antibiotics for the A-site of the decoding region of ribosomal RNA," <i>Chem. Biol.</i> (1998) 5:397-406.	

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